

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 33. (canceled)

34. (currently amended) A computer-implemented method for searching and displaying a structured document including performing a an element-designated full-text search ~~on elements designated~~ to the structured document and highlighted displaying of information on a position of ~~the document~~ characters meeting a search ~~result~~ query in the structured document, the method comprising the steps of:

generating an original analyzed ~~result of the structured~~ structured document of a structured document to be searched;

removing a ~~pre-designated element~~ predefined elements from the original analyzed ~~result of the~~ structured document, and concatenating a ~~content~~ content character ~~string~~ strings of a higher-rank ~~element than~~ elements and of the removed ~~pre-designated element~~ predefined elements with a ~~content~~ character string of the removed ~~pre-designated element~~, to thereby generate the a structured document for a ~~full-text~~ full-text search including the concatenated ~~content of~~ content character strings, and further generating information for restoring the removed ~~pre-designated element~~ predefined elements;

acquiring information on a position ~~meeting a query to~~ of a character string meeting the search query in the structured document for ~~the full-text~~ full-text search;

converting the information on the position of the character string meeting the search query on the structured document for the full-text search into information on ~~a~~ the position of the document character string meeting the search query in the original analyzed structured document;

adding element information for the highlighted displaying of the information on the position of the characters meeting the search query, to the original analyzed structured document; and

generating a text string of the structured document, from the analyzed structured document with the element information added thereto.

35. (currently amended) A structured document searching and displaying method according to claim 34, wherein when the conditions are met for the relative positions of occurrence of two query terms in ~~a~~ the search query, the respective query terms constituting the search query are displayed in highlighted ~~fashion~~ text with different display formats from each other.

36. (currently amended) A structured document searching and displaying method according to claim 34, wherein each of a plurality of query terms constituting ~~a~~ the search query and the whole element including said query terms are displayed in highlighted ~~fashion~~ text with different display formats.

37. (currently amended) A structured document searching and displaying method according to claim 34, wherein a highlighted display format for highlighted display is set using a method specified in said search query.

38. (currently amended) A structured document searching and displaying method according to claim 34, wherein the ~~result of~~ character string meeting the search query is displayed in highlighted ~~fashion~~ text using any one of a plurality of highlight display formats for each query term.

39. (currently amended) A structured document searching and displaying method according to claim 38, wherein the highlighted display format for each query term is determined based ~~on the~~ on information ~~on the~~ on occurrence frequency of each query term.

40. (currently amended) A structured document searching and displaying method according to claim 38, wherein the display format of highlighted display for each query term is determined based ~~on the~~ information ~~in the~~ in weighting predetermined for each query term.

41. (currently amended) A structured document searching and displaying method according to claim 34, wherein

said step of generating a text string includes a step of producing the text string ~~of~~ corresponding to the sub-elements to be displayed, from sub-elements of the analyzed structured document ~~corresponding to the sub-elements to be displayed~~.

42. (withdrawn) A computer-implemented method for searching and displaying a structured document including performing a full-text search on elements

designated to the structured document and highlighted displaying of information on a position of the document meeting a search result, the method comprising the steps of:

- registering the structured document as a text including element information;
- performing a full-text search to the text, while skipping the element information included in the text, to acquire a position of the structured document meeting a query and a position of the element information included in said position of the structured document;
- acquiring portions of the text including the element information other than the position of element information among the positions of the structured document meeting the query, as highlighted display objective positions; and
- generating the structured document, with element information for highlighted display being added to respective ones of said highlighted display objective positions.

43. (withdrawn) A computer-implemented method for searching and displaying a structured document including performing a full-text search on elements designated to the structured document and highlighted displaying of information on a position of the document meeting a search result, the method comprising the steps of:

- registering the structured document as a text including element information;
- performing a full-text search to the text, while skipping element information other than attribute information included in the text, to acquire the position of the

attribute information among element information included in the position of the structured document meeting a query;

adding the attribute information included in the position of the structured document meeting the query to the content character string of the text to generate the structured document, with element information for highlighted displaying of the position of the structured document meeting the query added to the attribute information added to the content character string.

44. (withdrawn) A computer-implemented method for searching and displaying a structured document including performing a full-text search on elements designated to the structured document and highlighted displaying of information on a position of the document meeting a search result, the method comprising the steps of:

scanning said text containing element information from the beginning of the text to determine whether or not a position meeting a query is interposed between a specific tag indicating the start of a predetermined document element and a specific tag indicating the end of said document element; and

when said position is so interposed, additionally adding a character string, including a character string of the position meeting said query, to the content before the specific tag indicating the start of the document element or after the tag indicating the end of the document element, and generating the structured document with element information added thereto for highlighted displaying of the position meeting said query in said character string.

45. (withdrawn) A computer-implemented method for searching and displaying a structured document including performing a full-text search on elements designated to the structured document and highlighted displaying of information on a position of the document meeting a search result, the method comprising the steps of:

registering the structured document as a text including element information;

performing a full-text search to the text, while skipping the element information included in the text, to acquire a position of the structured document meeting a query and a position of the element information included in said position of the structured document;

acquiring portions of the text including the element information other than the position of element information among the positions of the structured document meeting the query, as highlighted display objective positions; and

generating the structured document, with element information for highlighted display being added to respective ones of said highlighted display objective positions, which element information is designated by said query.

46. (currently amended) A structured document searching and displaying apparatus for performing a an element-designated full-text search on elements ~~designated~~ to the structured document, and for highlighted-displaying of information on a position of ~~the structured document~~ characters meeting a search result, ~~query in the structured document~~, said apparatus including a processor, a memory unit, a file unit and an input/output unit, said processor comprising:

structured document analyzing means for generating an original analyzed ~~result~~ structured document of the ~~a~~ structured document to be searched;

means for removing a ~~pre-designated element~~ predefined elements from the original analyzed ~~result of the~~ structured document, and concatenating a ~~content~~ content character-string strings of a higher element than higher-rank elements and of the removed ~~pre-designated element~~ predefined elements with a ~~content~~ character string of the removed ~~pre-designated element~~, to thereby generate the ~~a~~ structured document for a ~~full-text~~ full-text search including the concatenated content character strings, and further generating information for restoring the removed ~~pre-designated element~~ predefined elements;

full-text searching and processing means for acquiring information on a position of the ~~document~~ a character string meeting a ~~the search~~ query to ~~in~~ the structured document for the ~~full-text~~ full-text search;

means for converting the information on the position of the ~~document~~ character string meeting the search query in the structured document for the full-text search into information on the position of the ~~document~~ character string meeting the search query in the original analyzed structured document;

means for adding element information for the highlighted displaying of the information on the position of the ~~document~~ characters meeting the search query, to the original analyzed structured document; and

means for generating a text string of the structured document from the analyzed structured document with the element information added thereto.

47. (currently amended) A program for implementing a structured document searching and displaying method of performing a an element-designated full-text search ~~on elements designated~~ to the structured document, and for ~~highlight-~~ displaying highlighted display of information on a position of ~~the document~~ characters meeting a search result, query in the structured document, in an information processing system including a processor, a memory unit, a file unit and an input/output unit, said method comprising steps executed by the processor, said steps comprising:

generating an original ~~analyzed result~~ structure document of the a structured document to be searched;

removing a ~~pre-designated element~~ predefined elements from the original ~~analyzed result of the~~ structured document, and concatenating a ~~content~~ content character string strings of a ~~higher element than~~ higher-rank elements and of the removed ~~pre-designated element~~ predefined elements with a content character string of the removed ~~pre-designated element~~, to thereby generate the a structured document for a ~~full-text~~ full-text search including the concatenated content character strings, and further generating information for restoring the removed ~~pre-designated element~~ predefined elements;

acquiring information on a position of ~~the document~~ a character string meeting a ~~the search~~ query to in the structured document for the ~~full-text~~ full-text search;

converting the information on the position of the ~~document~~ character string meeting the search query in the structured document for the full-text search into information on the position of the ~~document~~ character string meeting the search query in the original analyzed structured document;

adding element information for the highlighted displaying of the information on the position of the ~~document~~ characters meeting the search query, to the original analyzed structured document; and

generating a text string of the structured document, from the analyzed structured document with the element information added thereto.

48. (currently amended) A computer-readable recording medium for storing a program, executable by a computer, for implementing a structured document searching and displaying method of performing a an element-designated full-text search ~~on elements designated~~ to the structured document, and for ~~highlight-~~ displaying highlighted display of information on a position of the ~~document~~ characters meeting a search ~~result,~~ query in the structured document, in an information processing system including a processor, a memory unit, a file unit and an input/output unit, said method comprising steps executed by the processor, said steps comprising:

generating an original ~~analyzed result~~ structured document of the a structured document to be searched;

removing a ~~pre-designated element~~ predefined elements from the original ~~analyzed result of the~~ structured document, and concatenating a ~~content~~ content character ~~string~~ strings of a ~~higher element than~~ higher-rank elements and of the removed ~~pre-designated element~~ predefined elements with a content character ~~string of the removed pre-designated element,~~ to thereby generate the a structured document for a ~~full-text~~ full-text search including the concatenated content ~~character~~

character strings, and further generating information for restoring the removed pre-designated element predefined elements;

acquiring information on a position of ~~the document~~ a character string meeting ~~a the search~~ query ~~to in~~ the structured document for the ~~full-text~~ full-text search;

converting the information on the position of the ~~document~~ character string meeting the search query in the structured document for the full-text search into information on ~~the a~~ position of ~~the document~~ the character string meeting the search query in the original analyzed structured document;

adding element information for the highlighted displaying of the information on the position of the ~~document~~ characters meeting the search query, to the original analyzed structured document; and

generating a text string of the structured document, from the analyzed structured document with the element information added thereto.

49. (withdrawn) A computer-implemented method for searching and displaying a structured document including performing a full-text search on elements designated to the structured document and highlighted displaying of information on a position of the document meeting a search result, the method comprising the steps of:

acquiring a position of the structured document meeting a query from a content character string concatenated with element information having pre-designated element information removed from the structured document;

converting the acquired position into a position of the original structured document meeting the query;

inserting a start tag of highlighted displaying of information on the converted position, into the beginning of the position of the original structured document meeting the query, and inserting an end tag of highlighted displaying of said information on the converted position, into the end of the position of the original structured document meeting the query; and

when element information is included in the position of the original structured document, inserting an end tag for highlighted displaying of the information on the converted position, before the element information, and inserting a start tag for highlighted displaying of the information on the converted position after the element information.